DETAILED MEASURMENT

EMB

Name Of Work:	Improvements to road 8th, 9th, 10th main and 7th A, 8th A cross, 5th B, 17th cross and other cross roads at MEI layout and 8th B, 9th cross, 5th, 18th Main & other cross roads and Reconstruction of CC roads at MEI layout in ward No 14, T.Dasarahalli sub-division (Package No.DZ 17-18 (2) (4 works)
Est Cost:	195.00 Lakhs
Job Code:	014-18-000070
P-Code	3316

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BRUHATH BANGALORE MAHANAGARA PALIKE

Name of Work: Modified Estimate for Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Name of Agency: M.S.V.Constructions Company

Est Cost :195.00 Lakhs

Job Code No : 014-18-000070

Work Order No : EE/DD/W.O/133/2020-21 Dtd : 20.11.2020

Sl No	Description of Item	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Qty
Measurement recorded on : 01/12/21 to 27/01/22							
1	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 metres and an average lift upto 1.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.						
		Cum					
	Desilting						
	1st Cross road from Royal Enclave main road to dead end						
	LHS		1	30.00	0.50	0.30	4.50
			1	30.00	0.50	0.30	4.50
			1	20.40	0.50	0.30	3.06
	RHS		1	30.00	0.50	0.30	4.50
			1	10.00	0.50	0.30	1.50
	2nd cross road						
	LHS		1	30.00	0.50	0.30	4.50
			1	18.20	0.50	0.30	2.73
	RHS		1	30.00	0.50	0.30	4.50
			1	18.20	0.50	0.30	2.73
	3rd cross road from Dead End to Royal Enclave road						
	LHS		1	30.00	0.50	0.30	4.50
			1	30.00	0.50	0.30	4.50
			1	3.30	0.50	0.30	0.50
	RHS		1	30.00	0.50	0.30	4.50
			1	30.00	0.50	0.30	4.50
			1	3.30	0.50	0.30	0.50
	3rd cross road from Royal Enclave main road to Parallel road						
	LHS		1	28.80	0.50	0.30	4.32
	RHS		1	28.80	0.50	0.30	4.32
	4th cross road from Dead End to Royal Enclave road						
	LHS		1	30.00	0.50	0.30	4.50
			1	30.00	0.50	0.30	4.50
			1	9.60	0.50	0.30	1.44
	RHS		1	30.00	0.50	0.30	4.50
			1	30.00	0.50	0.30	4.50
			1	9.60	0.50	0.30	1.44
	4th cross road from Royal Enclave main road to Parallel road						

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LHS	1	28.00	0.50	0.30	4.20
RHS	1	28.00	0.50	0.30	4.20
Parallel road From 4th tom dead end					
LHS	1	30.00	0.50	0.30	4.50
	1	30.00	0.50	0.30	4.50
	1	5.50	0.50	0.30	0.83
RHS	1	30.00	0.50	0.30	4.50
	1	30.00	0.50	0.30	4.50
	1	5.50	0.50	0.30	0.83
5th Cross road					
LHS	1	30.00	0.50	0.30	4.50
	1	30.00	0.50	0.30	4.50
	1	4.10	0.50	0.30	0.62
RHS	1	30.00	0.50	0.30	4.50
	1	30.00	0.50	0.30	4.50
	1	4.10	0.50	0.30	0.62
Royal Enclave Main road from Bhairaveswara circle Road to NMH kalyanamantapa					
LHS	1	30.00	0.50	0.30	4.50
	1	30.00	0.50	0.30	4.50
	1	30.00	0.50	0.30	4.50
	1	30.00	0.50	0.30	4.50
	1	30.00	0.50	0.30	4.50
	1	30.00	0.50	0.30	4.50
	1	24.00	0.50	0.30	3.60
RHS	1	30.00	0.50	0.30	4.50
	1	30.00	0.50	0.30	4.50
	1	30.00	0.50	0.30	4.50
	1	30.00	0.50	0.30	4.50
	1	30.00	0.50	0.30	4.50
	1	30.00	0.50	0.30	4.50
	1	24.00	0.50	0.30	3.60
			Sub Total A		**189.51**
New Drain					
1st Cross road from Royal Enclave main road to dead end					
LHS	1	30.00	1.20	1.00	36.00
	1	30.00	1.20	1.00	36.00
	1	20.40	1.20	1.00	24.48
RHS	1	30.00	1.20	1.00	36.00
	1	10.00	1.20	1.00	12.00
2nd cross road					
LHS	1	30.00	1.20	1.00	36.00
	1	18.20	1.20	1.00	21.84
RHS	1	30.00	1.20	1.00	36.00
	1	18.20	1.20	1.00	21.84
3rd cross road from Dead End to Royal Enclave road					
LHS	1	30.00	1.20	1.00	36.00
	1	30.00	1.20	1.00	36.00
	1	3.30	1.20	1.00	3.96
RHS	1	30.00	1.20	1.00	36.00

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	1	30.00	1.20	1.00	36.00
	1	3.30	1.20	1.00	3.96
3rd cross road from Royal Enclave main road to Parallel road					
LHS	1	28.80	1.20	1.00	34.56
RHS	1	28.80	1.20	1.00	34.56
4th cross road from Dead End to Royal Enclave road					
LHS	1	30.00	1.20	1.00	36.00
	1	30.00	1.20	1.00	36.00
	1	9.60	1.20	1.00	11.52
RHS	1	30.00	1.20	1.00	36.00
	1	30.00	1.20	1.00	36.00
	1	9.60	1.20	1.00	11.52
4th cross road from Royal Enclave main road to Parallel road					
LHS	1	28.00	1.20	1.00	33.60
RHS	1	28.00	1.20	1.00	33.60
Parallel road From 4th to dead end					
LHS	1	30.00	1.20	1.00	36.00
	1	30.00	1.20	1.00	36.00
	1	5.50	1.20	1.00	6.60
RHS	1	30.00	1.20	1.00	36.00
	1	30.00	1.20	1.00	36.00
	1	5.50	1.20	1.00	6.60
5th Cross road					
LHS	1	30.00	1.20	1.00	36.00
	1	30.00	1.20	1.00	36.00
	1	4.10	1.20	1.00	4.92
RHS	1	30.00	1.20	1.00	36.00
	1	30.00	1.20	1.00	36.00
	1	4.10	1.20	1.00	4.92
Royal Enclave Main road from Bhairaveswara circle Road to NMH kalyanamantapa					
LHS	1	30.00	1.20	1.00	36.00
	1	30.00	1.20	1.00	36.00
	1	30.00	1.20	1.00	36.00
	1	30.00	1.20	1.00	36.00
	1	30.00	1.20	1.00	36.00
	1	30.00	1.20	1.00	36.00
	1	24.00	1.20	1.00	28.80
RHS	1	30.00	1.20	1.00	36.00
	1	30.00	1.20	1.00	36.00
	1	30.00	1.20	1.00	36.00
	1	30.00	1.20	1.00	36.00
	1	30.00	1.20	1.00	36.00
	1	30.00	1.20	1.00	36.00
	1	24.00	1.20	1.00	28.80
			Sub Total B		**1516.08**
			Sub Total B-A		**1326.57**
New culvert					
1st Cross road					
	1	6.00	1.80	1.20	12.96

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			1	6.50	1.80	1.20	14.04
	2nd Cross road						
			1	4.00	1.80	1.20	8.64
	3rd Cross road						
			1	5.50	1.80	1.20	11.88
			1	6.00	1.80	1.20	12.96
	4th Cross road						
			1	6.00	1.80	1.20	12.96
			1	6.30	1.80	1.20	13.61
	5th Cross road						
			1	5.00	1.80	1.20	10.80
					Sub Total		97.85
					Total		1424.42
						BOQ Qty	1272.93
						Upto 125% of BOQ Qty	151.49
						Above 125% of BOQ Qty	Nill

Assistant Engineer
Ward-14

Asst Executive Engineer
T Dasarahalli sub division

Measurement recorded on : 01/12/21 to 07/01/22							
2	**Removing BS Slab and stacking etc Complete.**						
		Sqm					
	Drain						
	1st Cross road from Royal Enclave main road to dead end						
	LHS		1	30.00	1.50		45.00
			1	30.00	1.50		45.00
			1	20.40	1.50		30.60
	RHS		1	30.00	1.50		45.00
			1	10.00	1.50		15.00
	2nd cross road						
	LHS		1	30.00	1.50		45.00
			1	18.20	1.50		27.30
	RHS		1	30.00	1.50		45.00
			1	18.20	1.50		27.30
	3rd cross road from Dead End to Royal Enclave road						
	LHS		1	30.00	1.50		45.00
			1	30.00	1.50		45.00
			1	3.30	1.50		4.95
	RHS		1	30.00	1.50		45.00
			1	30.00	1.50		45.00
			1	3.30	1.50		4.95
	3rd cross road from Royal Enclave main road to Parallel road						
	LHS		1	28.80	1.50		43.20
	RHS		1	28.80	1.50		43.20
	4th cross road from Dead End to Royal Enclave road						
	LHS		1	30.00	1.50		45.00
			1	30.00	1.50		45.00
			1	9.60	1.50		14.40
	RHS		1	30.00	1.50		45.00
			1	30.00	1.50		45.00
			1	9.60	1.50		14.40
	4th cross road from Royal Enclave main road to Parallel road						
	LHS		1	28.00	1.50		42.00
	RHS		1	28.00	1.50		42.00
	Parallel road From 4th tom dead end						
	LHS		1	30.00	1.50		45.00
			1	30.00	1.50		45.00
			1	5.50	1.50		8.25
	RHS		1	30.00	1.50		45.00
			1	30.00	1.50		45.00
			1	5.50	1.50		8.25
	5th Cross road						
	LHS		1	30.00	1.50		45.00
			1	30.00	1.50		45.00
			1	4.10	1.50		6.15

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	RHS		1	30.00	1.50		45.00
			1	30.00	1.50		45.00
			1	4.10	1.50		6.15
	Royal Enclave Main road from Bhairaveswara circle Road to NMH kalyanamantapa						
	LHS		1	30.00	1.50		45.00
			1	30.00	1.50		45.00
			1	30.00	1.50		45.00
			1	30.00	1.50		45.00
			1	30.00	1.50		45.00
			1	30.00	1.50		45.00
			1	24.00	1.50		36.00
	RHS		1	30.00	1.50		45.00
			1	30.00	1.50		45.00
			1	30.00	1.50		45.00
			1	30.00	1.50		45.00
			1	30.00	1.50		45.00
			1	30.00	1.50		45.00
			1	24.00	1.50		36.00
	Culvert						
	1st Cross road						
			1	6.00	1.80		10.80
			1	6.50	1.80		11.70
	2nd Cross road						
			1	4.00	1.80		7.20
	3rd Cross road						
			1	5.50	1.80		9.90
			1	6.00	1.80		10.80
	4th Cross road						
			1	6.00	1.80		10.80
			1	6.30	1.80		11.34
	5th Cross road						
			1	5.00	1.80		9.00
					Total		1976.64
						BOQ Qty	10119.00
						Upto 125% of BOQ Qty	1976.64
						Above 125% of BOQ Qty	Nill

Assistant Engineer
Ward-14

Asst Executive Engineer
T Dasarahalli sub division

Measurement recorded on : 07/12/21 to 15/12/21							
3	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2						
		Cum					
	Drain						
	1st Cross road from Royal Enclave main road to dead end						
	LHS		1	30.00	1.20	0.10	3.60
			1	30.00	1.20	0.10	3.60
			1	20.40	1.20	0.10	2.45
	RHS		1	30.00	1.20	0.10	3.60
			1	10.00	1.20	0.10	1.20
	2nd cross road						
	LHS		1	30.00	1.20	0.10	3.60
			1	18.20	1.20	0.10	2.18
	RHS		1	30.00	1.20	0.10	3.60
			1	18.20	1.20	0.10	2.18
	3rd cross road from Dead End to Royal Enclave road						
	LHS		1	30.00	1.20	0.10	3.60
			1	30.00	1.20	0.10	3.60
			1	3.30	1.20	0.10	0.40
	RHS		1	30.00	1.20	0.10	3.60
			1	30.00	1.20	0.10	3.60
			1	3.30	1.20	0.10	0.40
	3rd cross road from Royal Enclave main road to Parallel road						
	LHS		1	28.80	1.20	0.10	3.46
	RHS		1	28.80	1.20	0.10	3.46
	4th cross road from Dead End to Royal Enclave road						
	LHS		1	30.00	1.20	0.10	3.60
			1	30.00	1.20	0.10	3.60
			1	9.60	1.20	0.10	1.15
	RHS		1	30.00	1.20	0.10	3.60
			1	30.00	1.20	0.10	3.60
			1	9.60	1.20	0.10	1.15
	4th cross road from Royal Enclave main road to Parallel road						
	LHS		1	28.00	1.20	0.10	3.36
	RHS		1	28.00	1.20	0.10	3.36
	Parallel road From 4th tom dead end						
	LHS		1	30.00	1.20	0.10	3.60
			1	30.00	1.20	0.10	3.60
			1	5.50	1.20	0.10	0.66
	RHS		1	30.00	1.20	0.10	3.60
			1	30.00	1.20	0.10	3.60
			1	5.50	1.20	0.10	0.66
	5th Cross road						
	LHS		1	30.00	1.20	0.10	3.60

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			1	30.00	1.20	0.10	3.60
			1	4.10	1.20	0.10	0.49
	RHS		1	30.00	1.20	0.10	3.60
			1	30.00	1.20	0.10	3.60
			1	4.10	1.20	0.10	0.49
	Royal Enclave Main road from Bhairaveswara circle Road to NMH kalyanamantapa						
	LHS		1	30.00	1.20	0.10	3.60
			1	30.00	1.20	0.10	3.60
			1	30.00	1.20	0.10	3.60
			1	30.00	1.20	0.10	3.60
			1	30.00	1.20	0.10	3.60
			1	30.00	1.20	0.10	3.60
			1	24.00	1.20	0.10	2.88
	RHS		1	30.00	1.20	0.10	3.60
			1	30.00	1.20	0.10	3.60
			1	30.00	1.20	0.10	3.60
			1	30.00	1.20	0.10	3.60
			1	30.00	1.20	0.10	3.60
			1	30.00	1.20	0.10	3.60
			1	24.00	1.20	0.10	2.88
	Culvert						
	1st Cross road						
			1	6.00	1.50	0.10	0.90
			1	6.50	1.50	0.10	0.98
	2nd Cross road						
			1	4.00	1.50	0.10	0.60
	3rd Cross road						
			1	5.50	1.50	0.10	0.83
			1	6.00	1.50	0.10	0.90
	4th Cross road						
			1	6.00	1.50	0.10	0.90
			1	6.30	1.50	0.10	0.95
	5th Cross road						
			1	5.00	1.50	0.10	0.75
					Total Qty		158.40
						BOQ Qty	143.22
						Upto 125% of BOQ Qty	15.18
						Above 125% of BOQ Qty	Nill

Assistant Engineer
Ward-14

Asst Executive Engineer
T Dasarahalli sub division

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Measurement recorded on : 10/12/21 to 26/01/22							
4	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 -Fe 500						
		MT					
			Nos	No of Bar	Length of Bar	Coffici ent	Qty
	Drain						
	1st Cross road from Royal Enclave main road to dead end						
	LHS						
	U-shape main bar						
	10mm dia @ 100mm C to C		1	802.00	2.00	0.62	994.48
	Distribution bar						
	8mm dia @ 100mm C to C		1	21.00	80.00	0.39	655.20
	RHS						
	U-shape main bar						
	10mm dia @ 100mm C to C		1	401.00	2.00	0.62	497.24
	Distribution bar						
	8mm dia @ 100mm C to C		1	21.00	39.95	0.39	327.19
	2nd cross road						
	U-shape main bar						
	10mm dia @ 100mm C to C		2	483.00	2.00	0.62	1197.84
	Distribution bar						
	8mm dia @ 100mm C to C		2	21.00	48.10	0.39	787.88
	3rd cross road from Dead End to Royal Enclave road						
	U-shape main bar						
	10mm dia @ 100mm C to C		2	634.00	2.00	0.62	1572.32
	Distribution bar						
	8mm dia @ 100mm C to C		2	21.00	63.25	0.39	1036.04
	3rd cross road from Royal Enclave main road to Parallel road						
	U-shape main bar						
	10mm dia @ 100mm C to C		2	289.00	2.00	0.62	716.72
	Distribution bar						
	8mm dia @ 100mm C to C		2	21.00	28.75	0.39	470.93
	4th cross road from Dead End to Royal Enclave road						
	U-shape main bar						
	10mm dia @ 100mm C to C		2	697.00	2.00	0.62	1728.56
	Distribution bar						
	8mm dia @ 100mm C to C		2	21.00	69.50	0.39	1138.41
	4th cross road from Royal Enclave main road to Parallel road						
	U-shape main bar						
	10mm dia @ 100mm C to C		2	281.00	2.00	0.62	696.88
	Distribution bar						
	8mm dia @ 100mm C to C		2	21.00	27.95	0.39	457.82
	Parallel road From 4th tom dead end						

	U-shape main bar						
	10mm dia @ 100mm C to C		2	656.00	2.00	0.62	1626.88
	Distribution bar						
	8mm dia @ 100mm C to C		2	21.00	65.45	0.39	1072.07
	5th Cross road						
	U-shape main bar						
	10mm dia @ 100mm C to C		2	642.00	2.00	0.62	1592.16
	Distribution bar						
	8mm dia @ 100mm C to C		2	21.00	64.00	0.39	1048.32
	Royal Enclave Main road from Bhairaveswara circle Road to NMH kalyanamantapa						
	U-shape main bar						
	10mm dia @ 100mm C to C		2	2040.00	2.00	0.62	5059.20
	Distribution bar						
	8mm dia @ 100mm C to C		2	21.00	203.95	0.39	3340.70
	Culvert						
	1st Cross road Culvert 1						
	For Raft						
	Bottom main bar						
	10mm dia @ 100mm C to C		1	61.00	1.40	0.62	52.95
	Distribution bar						
	8mm dia @ 100mm C to C		1	15.00	5.95	0.39	34.81
	Top main bar						
	10mm dia @ 100mm C to C		1	61.00	1.40	0.62	52.95
	Distribution bar						
	8mm dia @ 100mm C to C		1	15.00	5.95	0.39	34.81
	For Side Wall						
	Outer main bar						
	10mm dia @ 100mm C to C		2	61.00	1.10	0.62	83.20
	Distribution bar						
	8mm dia @ 100mm C to C		2	9.00	5.95	0.39	41.77
	Inner main bar						
	10mm dia @ 100mm C to C		2	61.00	1.40	0.62	105.90
	Distribution bar						
	8mm dia @ 100mm C to C		2	9.00	5.95	0.39	41.77
	1st Cross road Culvert 2						
	For Raft						
	Bottom main bar						
	10mm dia @ 100mm C to C		1	66.00	1.40	0.62	57.29
	Distribution bar						
	8mm dia @ 100mm C to C		1	15.00	6.40	0.39	37.44
	Top main bar						
	10mm dia @ 100mm C to C		1	66.00	1.40	0.62	57.29
	Distribution bar						
	8mm dia @ 100mm C to C		1	15.00	6.40	0.39	37.44
	For Side Wall						
	Outer main bar						
	10mm dia @ 100mm C to C		2	66.00	1.10	0.62	90.02
	Distribution bar						

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	8mm dia @ 100mm C to C		2	9.00	6.40	0.39	44.93
	Inner main bar						
	10mm dia @ 100mm C to C		2	66.00	1.10	0.62	90.02
	Distribution bar						
	8mm dia @ 100mm C to C		2	9.00	6.40	0.39	44.93
	2nd Cross road						
	For Raft						
	Bottom main bar						
	10mm dia @ 100mm C to C		1	41.00	1.40	0.62	35.59
	Distribution bar						
	8mm dia @ 100mm C to C		1	15.00	3.90	0.39	22.82
	Top main bar						
	10mm dia @ 100mm C to C		1	41.00	1.40	0.62	35.59
	Distribution bar						
	8mm dia @ 100mm C to C		1	15.00	3.90	0.39	22.82
	For Side Wall						0.00
	Outer main bar						
	10mm dia @ 100mm C to C		2	41.00	1.10	0.62	55.92
	Distribution bar						
	8mm dia @ 100mm C to C		2	9.00	3.90	0.39	27.38
	Inner main bar						
	10mm dia @ 100mm C to C		2	41.00	1.10	0.62	55.92
	Distribution bar						
	8mm dia @ 100mm C to C		2	9.00	3.90	0.39	27.38
	3rd Cross road Culvert 1						
	For Raft						
	Bottom main bar						
	10mm dia @ 100mm C to C		1	56.00	1.40	0.62	48.61
	Distribution bar						
	8mm dia @ 100mm C to C		1	15.00	5.45	0.39	31.88
	Top main bar						
	10mm dia @ 100mm C to C		1	56.00	1.40	0.62	48.61
	Distribution bar						
	8mm dia @ 100mm C to C		1	15.00	5.45	0.39	31.88
	For Side Wall						
	Outer main bar						
	10mm dia @ 100mm C to C		2	56.00	1.10	0.62	76.38
	Distribution bar						
	8mm dia @ 100mm C to C		2	9.00	5.45	0.39	38.26
	Inner main bar						
	10mm dia @ 100mm C to C		2	56.00	1.10	0.62	76.38
	Distribution bar						
	8mm dia @ 100mm C to C		2	9.00	5.45	0.39	38.26
	3rd Cross road Culvert 2						
	For Raft						
	Bottom main bar						
	10mm dia @ 100mm C to C		1	61.00	1.40	0.62	52.95

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	Distribution bar						
	8mm dia @ 100mm C to C		1	15.00	5.95	0.39	34.81
	Top main bar						
	10mm dia @ 100mm C to C		1	61.00	1.40	0.62	52.95
	Distribution bar						
	8mm dia @ 100mm C to C		1	15.00	5.95	0.39	34.81
	For Side Wall						
	Outer main bar						
	10mm dia @ 100mm C to C		2	61.00	1.10	0.62	83.20
	Distribution bar						
	8mm dia @ 100mm C to C		2	9.00	5.95	0.39	41.77
	Inner main bar						
	10mm dia @ 100mm C to C		2	61.00	1.10	0.62	83.20
	Distribution bar						
	8mm dia @ 100mm C to C		2	9.00	5.95	0.39	41.77
	4th Cross road Culvert 1						
	For Raft						
	Bottom main bar						
	10mm dia @ 100mm C to C		1	61.00	1.40	0.62	52.95
	Distribution bar						
	8mm dia @ 100mm C to C		1	15.00	5.95	0.39	34.81
	Top main bar						
	10mm dia @ 100mm C to C		1	61.00	1.40	0.62	52.95
	Distribution bar						
	8mm dia @ 100mm C to C		1	15.00	5.95	0.39	34.81
	For Side Wall						
	Outer main bar						
	10mm dia @ 100mm C to C		2	61.00	1.10	0.62	83.20
	Distribution bar						
	8mm dia @ 100mm C to C		2	9.00	5.95	0.39	41.77
	Inner main bar						
	10mm dia @ 100mm C to C		2	61.00	1.10	0.62	83.20
	Distribution bar						
	8mm dia @ 100mm C to C		2	9.00	5.95	0.39	41.77
	4th Cross road Culvert 2						
	For Raft						
	Bottom main bar						
	10mm dia @ 100mm C to C		1	64.00	1.40	0.62	55.55
	Distribution bar						
	8mm dia @ 100mm C to C		1	15.00	6.25	0.39	36.56
	Top main bar						
	10mm dia @ 100mm C to C		1	64.00	1.40	0.62	55.55
	Distribution bar						
	8mm dia @ 100mm C to C		1	15.00	6.25	0.39	36.56
	For Side Wall						
	Outer main bar						
	10mm dia @ 100mm C to C		2	64.00	1.10	0.62	87.30

CamScanner

	Distribution bar						
	8mm dia @ 100mm C to C		2	9.00	6.25	0.39	43.88
	Inner main bar						
	10mm dia @ 100mm C to C		2	64.00	1.10	0.62	87.30
	Distribution bar						
	8mm dia @ 100mm C to C		2	9.00	6.25	0.39	43.88
	5th Cross road						
	For Raft						
	Bottom main bar						
	10mm dia @ 100mm C to C		1	51.00	1.40	0.62	44.27
	Distribution bar						
	8mm dia @ 100mm C to C		1	15.00	4.95	0.39	28.96
	Top main bar						
	10mm dia @ 100mm C to C			51.00	1.40	0.62	44.27
	Distribution bar						
	8mm dia @ 100mm C to C			15.00	4.95	0.39	28.96
	For Side Wall						
	Outer main bar						
	10mm dia @ 100mm C to C		2	51.00	1.10	0.62	69.56
	Distribution bar						
	8mm dia @ 100mm C to C		2	9.00	4.95	0.39	34.75
	Inner main bar						
	10mm dia @ 100mm C to C		2	51.00	1.10	0.62	69.56
	Distribution bar						
	8mm dia @ 100mm C to C		2	9.00	4.95	0.39	34.75
							29250.58
						Total Qty	**29.25**

Assistant Engineer
Ward-14

Asst Executive Engineer
T Dasarahalli sub division

Measurement recorded on : 15/12/21 to 27/01/22

5	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 Kgs with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc, complete excluding cost of steel as per MORTH specification No. 1500,1700,2200 including cost of materials, labour, HOM of complete as per specifications.-do-wall & bottom 15cm						
		Cum					
	For Raft Concrete						
	1st Cross road from Royal Enclave main road to dead end						
	LHS		1	30.00	1.00	0.15	4.50
			1	30.00	1.00	0.15	4.50
			1	20.40	1.00	0.15	3.06
	RHS		1	30.00	1.00	0.15	4.50
			1	10.00	1.00	0.15	1.50
	2nd cross road						
	LHS		1	30.00	1.00	0.15	4.50
			1	18.20	1.00	0.15	2.73
	RHS		1	30.00	1.00	0.15	4.50
			1	18.20	1.00	0.15	2.73
	3rd cross road from Dead End to Royal Enclave road						
	LHS		1	30.00	1.00	0.15	4.50
			1	30.00	1.00	0.15	4.50
			1	3.30	1.00	0.15	0.50
	RHS		1	30.00	1.00	0.15	4.50
			1	30.00	1.00	0.15	4.50
			1	3.30	1.00	0.15	0.50
	3rd cross road from Royal Enclave main road to Parallel road						
	LHS		1	28.80	1.00	0.15	4.32
	RHS		1	28.80	1.00	0.15	4.32
	4th cross road from Dead End to Royal Enclave road						
	LHS		1	30.00	1.00	0.15	4.50
			1	30.00	1.00	0.15	4.50
			1	9.60	1.00	0.15	1.44
	RHS		1	30.00	1.00	0.15	4.50
			1	30.00	1.00	0.15	4.50
			1	9.60	1.00	0.15	1.44
	4th cross road from Royal Enclave main road to Parallel road						
	LHS		1	28.00	1.00	0.15	4.20
	RHS		1	28.00	1.00	0.15	4.20
	Parallel road From 4th tom dead end						
	LHS		1	30.00	1.00	0.15	4.50
			1	30.00	1.00	0.15	4.50
			1	5.50	1.00	0.15	0.83
	RHS		1	30.00	1.00	0.15	4.50
			1	30.00	1.00	0.15	4.50
			1	5.50	1.00	0.15	0.83
	5th Cross road						

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LHS		1	30.00	1.00	0.15	4.50
		1	30.00	1.00	0.15	4.50
		1	4.10	1.00	0.15	0.62
RHS		1	30.00	1.00	0.15	4.50
		1	30.00	1.00	0.15	4.50
		1	4.10	1.00	0.15	0.62
Royal Enclave Main road from Bhairaveswara circle Road to NMH kalyanamantapa						
LHS		1	30.00	1.00	0.15	4.50
		1	30.00	1.00	0.15	4.50
		1	30.00	1.00	0.15	4.50
		1	30.00	1.00	0.15	4.50
		1	30.00	1.00	0.15	4.50
		1	30.00	1.00	0.15	4.50
		1	24.00	1.00	0.15	3.60
RHS		1	30.00	1.00	0.15	4.50
		1	30.00	1.00	0.15	4.50
		1	30.00	1.00	0.15	4.50
		1	30.00	1.00	0.15	4.50
		1	30.00	1.00	0.15	4.50
		1	30.00	1.00	0.15	4.50
		1	24.00	1.00	0.15	3.60
For Side Wall						
1st Cross road from Royal Enclave main road to dead end						
LHS		2	30.00	0.15	0.60	5.40
		2	30.00	0.15	0.60	5.40
		2	20.40	0.15	0.60	3.67
RHS		2	30.00	0.15	0.60	5.40
		2	10.00	0.15	0.60	1.80
2nd cross road						
LHS		2	30.00	0.15	0.60	5.40
		2	18.20	0.15	0.60	3.28
RHS		2	30.00	0.15	0.60	5.40
		2	18.20	0.15	0.60	3.28
3rd cross road from Dead End to Royal Enclave road						
LHS		2	30.00	0.15	0.60	5.40
		2	30.00	0.15	0.60	5.40
		2	3.30	0.15	0.60	0.59
RHS		2	30.00	0.15	0.60	5.40
		2	30.00	0.15	0.60	5.40
		2	3.30	0.15	0.60	0.59
3rd cross road from Royal Enclave main road to Parallel road						
LHS		2	28.80	0.15	0.60	5.18
RHS		2	28.80	0.15	0.60	5.18
4th cross road from Dead End to Royal Enclave road						
LHS		2	30.00	0.15	0.60	5.40
		2	30.00	0.15	0.60	5.40
		2	9.60	0.15	0.60	1.73
RHS		2	30.00	0.15	0.60	5.40
		2	30.00	0.15	0.60	5.40

CamScanner

			2	9.60	0.15	0.60	1.73
	4th cross road from Royal Enclave main road to Parallel road						
	LHS		2	28.00	0.15	0.60	5.04
	RHS		2	28.00	0.15	0.60	5.04
	Parallel road From 4th tom dead end						
	LHS		2	30.00	0.15	0.60	5.40
			2	30.00	0.15	0.60	5.40
			2	5.50	0.15	0.60	0.99
	RHS		2	30.00	0.15	0.60	5.40
			2	30.00	0.15	0.60	5.40
			2	5.50	0.15	0.60	0.99
	5th Cross road						
	LHS		2	30.00	0.15	0.60	5.40
			2	30.00	0.15	0.60	5.40
			2	4.10	0.15	0.60	0.74
	RHS		2	30.00	0.15	0.60	5.40
			2	30.00	0.15	0.60	5.40
			2	4.10	0.15	0.60	0.74
	Royal Enclave Main road from Bhairaveswara circle Road to NMH kalyanamantapa						
	LHS		2	30.00	0.15	0.60	5.40
			2	30.00	0.15	0.60	5.40
			2	30.00	0.15	0.60	5.40
			2	30.00	0.15	0.60	5.40
			2	30.00	0.15	0.60	5.40
			2	30.00	0.15	0.60	5.40
			2	24.00	0.15	0.60	4.32
	RHS		2	30.00	0.15	0.60	5.40
			2	30.00	0.15	0.60	5.40
			2	30.00	0.15	0.60	5.40
			2	30.00	0.15	0.60	5.40
			2	30.00	0.15	0.60	5.40
			2	30.00	0.15	0.60	5.40
			2	24.00	0.15	0.60	4.32
	Culvert						
	Raft Concrete						
	1st Cross road						
			1	6.00	1.50	0.20	1.80
			1	6.50	1.50	0.20	1.95
	2nd Cross road						
			1	4.00	1.50	0.20	1.20
	3rd Cross road						
			1	5.50	1.50	0.20	1.65
			1	6.00	1.50	0.20	1.80
	4th Cross road						
			1	6.00	1.50	0.20	1.80
			1	6.30	1.50	0.20	1.89
	5th Cross road						
			1	5.00	1.50	0.20	1.50
	Side Walls						

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	1st Cross road						
			2	6.00	0.20	0.80	1.92
			2	6.50	0.20	0.80	2.08
	2nd Cross road						
			2	4.00	0.20	0.80	1.28
	3rd Cross road						
			2	5.50	0.20	0.80	1.76
			2	6.00	0.20	0.80	1.92
	4th Cross road						
			2	6.00	0.20	0.80	1.92
			2	6.30	0.20	0.80	2.02
	5th Cross road						
			2	5.00	0.20	0.80	1.60
					Total Qty		**445.01**

Assistant Engineer
Ward-14

Asst Executive Engineer
T Dasarahalli sub division

Measurement recorded on : 18/04/23							
6	Precast Slab 100mm thick (data rate)						
		Sqm					
	1st Cross road from Royal Enclave main road to dead end						
	LHS		1	30.00	0.90		27.00
			1	30.00	0.90		27.00
			1	20.40	0.90		18.36
	RHS		1	30.00	0.90		27.00
			1	10.00	0.90		9.00
	2nd cross road						
	LHS		1	30.00	0.90		27.00
			1	18.20	0.90		16.38
	RHS		1	30.00	0.90		27.00
			1	18.20	0.90		16.38
	3rd cross road from Dead End to Royal Enclave road						
	LHS		1	30.00	0.90		27.00
			1	30.00	0.90		27.00
			1	3.30	0.90		2.97
	RHS		1	30.00	0.90		27.00
			1	30.00	0.90		27.00
			1	3.30	0.90		2.97
	3rd cross road from Royal Enclave main road to Parallel road						
	LHS		1	28.80	0.90		25.92
	RHS		1	28.80	0.90		25.92
	4th cross road from Dead End to Royal Enclave road						
	LHS		1	30.00	0.90		27.00
			1	30.00	0.90		27.00
			1	9.60	0.90		8.64
	RHS		1	30.00	0.90		27.00
			1	30.00	0.90		27.00
			1	9.60	0.90		8.64
	4th cross road from Royal Enclave main road to Parallel road						
	LHS		1	28.00	0.90		25.20
	RHS		1	28.00	0.90		25.20
	Parallel road From 4th to dead end						
	LHS		1	30.00	0.90		27.00
			1	30.00	0.90		27.00
			1	5.50	0.90		4.95
	RHS		1	30.00	0.90		27.00
			1	30.00	0.90		27.00
			1	5.50	0.90		4.95
	5th Cross road						
	LHS		1	30.00	0.90		27.00
			1	30.00	0.90		27.00
			1	4.10	0.90		3.69
	RHS		1	30.00	0.90		27.00
			1	30.00	0.90		27.00
			1	4.10	0.90		3.69
	Royal Enclave Main road from Bhairaveswara circle Road to NMH kalyanamantapa						

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	LHS		1	30.00	0.90		27.00
			1	30.00	0.90		27.00
			1	30.00	0.90		27.00
			1	30.00	0.90		27.00
			1	30.00	0.90		27.00
			1	30.00	0.90		27.00
			1	24.00	0.90		21.60
	RHS		1	30.00	0.90		27.00
			1	30.00	0.90		27.00
			1	30.00	0.90		27.00
			1	30.00	0.90		27.00
			1	30.00	0.90		27.00
			1	30.00	0.90		27.00
			1	30.00	0.90		27.00
			1	24.00	0.90		21.60
					Total Qty		1137.06

Assistant Engineer
Ward-14

Asst Executive Engineer
T Dasarahalli sub division

Measurement recorded on : 18/04/22

7	**Precast Slab 250mm thick (data rate)**						
		Sqm					
	1st Cross road						
			1	6.00	1.80		10.80
			1	6.50	1.80		11.70
	2nd Cross road						
			1	4.00	1.80		7.20
	3rd Cross road						
			1	5.50	1.80		9.90
			1	6.00	1.80		10.80
	4th Cross road						
			1	6.00	1.80		10.80
			1	6.30	1.80		11.34
	5th Cross road						
			1	5.00	1.80		9.00
					Total Qty		**81.54**

Assistant Engineer
Ward-14

Asst Executive Engineer
T Dasarahalli sub division

8	**Earthwork in soil with hydraulic excavator of 0.90cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes. In accordance with requirements of lines, grades and cross sections and transporting to the embankment location and complete as per specifications.**						
		Cum					
	1st Cross road from Royal Enclave main road to dead end						
	0-15		1	15.00	(4.10+4.10)/2	0.23	14.15
	15-30		1	15.00	(4.10+4.10)/2	0.23	14.15
	30-40.30		1	10.30	(4.10+4.10)/2	0.23	9.71
	2nd Cross road						
	0-15		1	15.00	(3.80+3.80)/2	0.23	13.11
	15-30		1	15.00	(3.80+3.80)/2	0.23	13.11
	30-45		1	15.00	(3.80+3.70)/2	0.23	12.94
	45-48.20		1	3.20	(3.70+3.70)/2	0.23	2.72
	3rd Cross road						
	0-15		1	15.00	(5.00+5.50)/2	0.23	18.11
	15-30		1	15.00	(5.50+5.30)/2	0.23	18.63
	30-45		1	15.00	(5.30+5.20)/2	0.23	18.11
	45-60		1	15.00	(5.20+5.10)/2	0.23	17.77
	60-63.30		1	3.30	(5.10+5.10)/2	0.23	3.87
	0-15		1	15.00	(5.20+5.10)/2	0.23	17.77
	15-28.80		1	13.80	(5.10+5.50)/2	0.23	16.82
	4th cross road						
	0-15		1	15.00	(5.00+5.00)/2	0.23	17.25
	15-30		1	15.00	(5.00+5.00)/2	0.23	17.25
	30-45		1	15.00	(5.00+5.60)/2	0.23	18.29
	45-60		1	15.00	(5.60+5.70)/2	0.23	19.49
	60-69.60		1	9.60	(5.70+6.00)/2	0.23	12.92
	0-15		1	15.00	(6.00+6.00)/2	0.23	20.70
	15-28		1	13.00	(6.00+6.00)/2	0.23	17.94
	Parallel road For 4th & 3rd Cross						
	0-15		1	15.00	(4.90+4.80)/2	0.23	16.73
	15-30		1	15.00	(4.80+4.80)/2	0.23	16.56
	30-45		1	15.00	(4.80+4.80)/2	0.23	16.56
	45-60		1	15.00	(4.80+5.00)/2	0.23	16.91
	60-65.50		1	5.50	(5.00+3.00)/2	0.23	5.06
	5th Cross road						
	0-15		1	15.00	(6.00+6.00)/2	0.23	20.70
	15-30		1	15.00	(6.00+5.00)/2	0.23	18.98
	0-15		1	15.00	(5.20+5.10)/2	0.23	17.77
	15-30		1	15.00	(5.10+4.90)/2	0.23	17.25
	30-34.10		1	4.10	(4.90+5.00)/2	0.23	4.67
	Royal Enclave Main road from Bhairaveswara circle Road to NMH kalyanamantapa						
	0-15		1	15.00	(5.50+5.60)/2	0.23	19.15
	15-30		1	15.00	(5.60+5.50)/2	0.23	19.15
	30-45		1	15.00	(5.50+5.50)/2	0.23	18.98
	45-60		1	15.00	(5.50+5.50)/2	0.23	18.98
	60-75		1	15.00	(5.50+5.30)/2	0.23	18.63
	75-90		1	15.00	(5.30+5.30)/2	0.23	18.29

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	90-105		1	15.00	(5.30+5.30)/2	0.23	18.29
	105-120		1	15.00	(5.30+5.20)/2	0.23	18.11
	120-135		1	15.00	(5.20+5.20)/2	0.23	17.94
	135-150		1	15.00	(5.20+5.20)/2	0.23	17.94
	150-165		1	15.00	(5.20+5.20)/2	0.23	17.94
	165-180		1	15.00	(5.20+5.10)/2	0.23	17.77
	180-195		1	15.00	(5.10+5.50)/2	0.23	18.29
	195-204		1	9.00	(5.50+6.40)/2	0.23	12.32
					Total Qty		717.73
						BOQ Qty	1481.57
						Upto 125% of BOQ Qty	717.73
						Above 125% of BOQ Qty	Nill

Assistant Engineer
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Asst Executive Engineer
T Dasarahalli sub division

Measurement recorded on : 25/12/21 to 06/02/22

9	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3						
		Cum					
	1st Cross road from Royal Enclave main road to dead end						
	0-15		1	15.00	(4.10+4.10)/2		61.50
	15-30		1	15.00	(4.10+4.10)/2		61.50
	30-40.10		1	10.10	(4.10+4.10)/2		41.41
	0-15		1	15.00	(4.10+4.10)/2		61.50
	15-30		1	15.00	(4.10+4.10)/2		61.50
	30-40.30		1	10.30	(4.10+4.10)/2		42.23
	2nd Cross road						
	0-15		1	15.00	(3.80+3.80)/2		57.00
	15-30		1	15.00	(3.80+3.80)/2		57.00
	30-45		1	15.00	(3.80+3.70)/2		56.25
	45-48.20		1	3.20	(3.70+3.70)/2		11.84
	3rd Cross road						
	0-15		1	15.00	(5.00+5.50)/2		78.75
	15-30		1	15.00	(5.50+5.30)/2		81.00
	30-45		1	15.00	(5.30+5.20)/2		78.75
	45-60		1	15.00	(5.20+5.10)/2		77.25
	60-63.30		1	3.30	(5.10+5.10)/2		16.83
	0-15		1	15.00	(5.20+5.10)/2		77.25
	15-28.80		1	13.80	(5.10+5.50)/2		73.14
	4th cross road						
	0-15		1	15.00	(5.00+5.00)/2		75.00
	15-30		1	15.00	(5.00+5.00)/2		75.00
	30-45		1	15.00	(5.00+5.60)/2		79.50
	45-60		1	15.00	(5.60+5.70)/2		84.75
	60-69.60		1	9.60	(5.70+6.00)/2		56.16
	0-15		1	15.00	(6.00+6.00)/2		90.00
	15-28		1	13.00	(6.00+6.00)/2		78.00
	Parallel road For 4th & 3rd Cross						
	0-15		1	15.00	(4.90+4.80)/2		72.75
	15-30		1	15.00	(4.80+4.80)/2		72.00
	30-45		1	15.00	(4.80+4.80)/2		72.00
	45-60		1	15.00	(4.80+5.00)/2		73.50
	60-65.50		1	5.50	(5.00+3.00)/2		22.00
	5th Cross road						
	0-15		1	15.00	(6.00+6.00)/2		90.00
	15-30		1	15.00	(6.00+5.00)/2		82.50
	0-15		1	15.00	(5.20+5.10)/2		77.25
	15-30		1	15.00	(5.10+4.90)/2		75.00
	30-34.10		1	4.10	(4.90+5.00)/2		20.30
	Royal Enclave Main road from Bhairaveswara circle Road to NMH kalyanamantapa						
	0-15		1	15.00	(5.50+5.60)/2		83.25
	15-30		1	15.00	(5.60+5.50)/2		83.25
	30-45		1	15.00	(5.50+5.50)/2		82.50

	45-60		1	15.00	(5.50+5.50)/2		82.50
	60-75		1	15.00	(5.50+5.30)/2		81.00
	75-90		1	15.00	(5.30+5.30)/2		79.50
	90-105		1	15.00	(5.30+5.30)/2		79.50
	105-120		1	15.00	(5.30+5.20)/2		78.75
	120-135		1	15.00	(5.20+5.20)/2		78.00
	135-150		1	15.00	(5.20+5.20)/2		78.00
	150-165		1	15.00	(5.20+5.20)/2		78.00
	165-180		1	15.00	(5.20+5.10)/2		77.25
	180-195		1	15.00	(5.10+5.50)/2		79.50
	195-204		1	15.00	(5.50+6.40)/2		53.55
					Total Qty		3284.96
						BOQ Qty	3990.55
						Upto 125% of BOQ Qty	3284.96
						Above 125% of BOQ Qty	0.00

Assistant Engineer
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Asst Executive Engineer
T Dasarahalli sub division

Measurement recorded on : 31/01/22 to 07/02/22

10	**Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406**						
		Cum					
	1st Cross road from Royal Enclave main road to dead end						
	0-15		1	15.00	(4.10+4.10)/2	0.20	12.30
	15-30		1	15.00	(4.10+4.10)/2	0.20	12.30
	30-40.10		1	10.10	(4.10+4.10)/2	0.20	8.28
	0-15		1	15.00	(4.10+4.10)/2	0.20	12.30
	15-30		1	15.00	(4.10+4.10)/2	0.20	12.30
	30-40.30		1	10.30	(4.10+4.10)/2	0.20	8.45
	2nd Cross road						
	0-15		1	15.00	(3.80+3.80)/2	0.20	11.40
	15-30		1	15.00	(3.80+3.80)/2	0.20	11.40
	30-45		1	15.00	(3.80+3.70)/2	0.20	11.25
	45-48.20		1	3.20	(3.70+3.70)/2	0.20	2.37
	3rd Cross road						
	0-15		1	15.00	(5.00+5.50)/2	0.20	15.75
	15-30		1	15.00	(5.50+5.30)/2	0.20	16.20
	30-45		1	15.00	(5.30+5.20)/2	0.20	15.75
	45-60		1	15.00	(5.20+5.10)/2	0.20	15.45
	60-63.30		1	3.30	(5.10+5.10)/2	0.20	3.37
	0-15		1	15.00	(5.20+5.10)/2	0.20	15.45
	15-28.80		1	13.80	(5.10+5.50)/2	0.20	14.63
	4th cross road						
	0-15		1	15.00	(5.00+5.00)/2	0.20	15.00
	15-30		1	15.00	(5.00+5.00)/2	0.20	15.00
	30-45		1	15.00	(5.00+5.60)/2	0.20	15.90
	45-60		1	15.00	(5.60+5.70)/2	0.20	16.95
	60-69.60		1	9.60	(5.70+6.00)/2	0.20	11.23
	0-15		1	15.00	(6.00+6.00)/2	0.20	18.00
	15-28		1	13.00	(6.00+6.00)/2	0.20	15.60
	Parallel road For 4th & 3rd Cross						
	0-15		1	15.00	(4.90+4.80)/2	0.20	14.55
	15-30		1	15.00	(4.80+4.80)/2	0.20	14.40
	30-45		1	15.00	(4.80+4.80)/2	0.20	14.40
	45-60		1	15.00	(4.80+5.00)/2	0.20	14.70
	60-65.50		1	5.50	(5.00+3.00)/2	0.20	4.40
	5th Cross road						
	0-15		1	15.00	(6.00+6.00)/2	0.20	18.00
	15-30		1	15.00	(6.00+5.00)/2	0.20	16.50
	0-15		1	15.00	(5.20+5.10)/2	0.20	15.45
	15-30		1	15.00	(5.10+4.90)/2	0.20	15.00
	30-34.10		1	4.10	(4.90+5.00)/2	0.20	4.06
	Royal Enclave Main road from Bhairaveswara circle Road to NMH kalyanamantapa						

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	0-15		1	15.00	(5.50+5.60)/2	0.20	16.65
	15-30		1	15.00	(5.60+5.50)/2	0.20	16.65
	30-45		1	15.00	(5.50+5.50)/2	0.20	16.50
	45-60		1	15.00	(5.50+5.50)/2	0.20	16.50
	60-75		1	15.00	(5.50+5.30)/2	0.20	16.20
	75-90		1	15.00	(5.30+5.30)/2	0.20	15.90
	90-105		1	15.00	(5.30+5.30)/2	0.20	15.90
	105-120		1	15.00	(5.30+5.20)/2	0.20	15.75
	120-135		1	15.00	(5.20+5.20)/2	0.20	15.60
	135-150		1	15.00	(5.20+5.20)/2	0.20	15.60
	150-165		1	15.00	(5.20+5.20)/2	0.20	15.60
	165-180		1	15.00	(5.20+5.10)/2	0.20	15.45
	180-195		1	15.00	(5.10+5.50)/2	0.20	15.90
	195-204		1	9.00	(5.50+6.40)/2	0.20	10.71
					Total Qty		656.99
						BOQ Qty	1272.11
						Upto 125% of BOQ Qty	656.99
						Above 125% of BOQ Qty	Nill

Assistant Engineer
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Asst Executive Engineer
T Dasarahalli sub division

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Measurement recorded on : 08/02/22 to 23/02/22

11	Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down sizegraded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications.MORTH Specification No. 601 -do- with OPC at 150 Kg/cum and coarse aggregate 0.86 cum, fine aggregate 0.58cum using concrete Batch mix Plant at 75 cum/hr capacity with slip form paver with electronic sensor						
		Cum					
	1st Cross road from Royal Enclave main road to dead end						
	0-15		1	15.00	(4.10+4.10)/2	0.10	6.15
	15-30		1	15.00	(4.10+4.10)/2	0.10	6.15
	30-40.10		1	10.10	(4.10+4.10)/2	0.10	4.14
	0-15		1	15.00	(4.10+4.10)/2	0.10	6.15
	15-30		1	15.00	(4.10+4.10)/2	0.10	6.15
	30-40.30		1	10.30	(4.10+4.10)/2	0.10	4.22
	2nd Cross road						
	0-15		1	15.00	(3.80+3.80)/2	0.10	5.70
	15-30		1	15.00	(3.80+3.80)/2	0.10	5.70
	30-45		1	15.00	(3.80+3.70)/2	0.10	5.63
	45-48.20		1	3.20	(3.70+3.70)/2	0.10	1.18
	3rd Cross road						
	0-15		1	15.00	(5.00+5.50)/2	0.10	7.88
	15-30		1	15.00	(5.50+5.30)/2	0.10	8.10
	30-45		1	15.00	(5.30+5.20)/2	0.10	7.88
	45-60		1	15.00	(5.20+5.10)/2	0.10	7.73
	60-63.30		1	3.30	(5.10+5.10)/2	0.10	1.68
	0-15		1	15.00	(5.20+5.10)/2	0.10	7.73
	15-28.80		1	13.80	(5.10+5.50)/2	0.10	7.31
	4th cross road						
	0-15		1	15.00	(5.00+5.00)/2	0.10	7.50
	15-30		1	15.00	(5.00+5.00)/2	0.10	7.50
	30-45		1	15.00	(5.00+5.60)/2	0.10	7.95
	45-60		1	15.00	(5.60+5.70)/2	0.10	8.48
	60-69.60		1	9.60	(5.70+6.00)/2	0.10	5.62
	0-15		1	15.00	(6.00+6.00)/2	0.10	9.00
	15-28		1	13.00	(6.00+6.00)/2	0.10	7.80
	Parallel road For 4th & 3rd Cross						
	0-15		1	15.00	(4.90+4.80)/2	0.10	7.28
	15-30		1	15.00	(4.80+4.80)/2	0.10	7.20
	30-45		1	15.00	(4.80+4.80)/2	0.10	7.20
	45-60		1	15.00	(4.80+5.00)/2	0.10	7.35
	60-65.50		1	5.50	(5.00+3.00)/2	0.10	2.20
	5th Cross road						

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	0-15		1	15.00	(6.00+6.00)/2	0.10	9.00
	15-30		1	15.00	(6.00+5.00)/2	0.10	8.25
	0-15		1	15.00	(5.20+5.10)/2	0.10	7.73
	15-30		1	15.00	(5.10+4.90)/2	0.10	7.50
	30-34.10		1	4.10	(4.90+5.00)/2	0.10	2.03
	Royal Enclave Main road from Bha raveswara circle Road to NMH kalyanamantapa						
	0-15		1	15.00	(5.50+5.60)/2	0.10	8.33
	15-30		1	15.00	(5.60+5.50)/2	0.10	8.33
	30-45		1	15.00	(5.50+5.50)/2	0.10	8.25
	45-60		1	15.00	(5.50+5.50)/2	0.10	8.25
	60-75		1	15.00	(5.50+5.30)/2	0.10	8.10
	75-90		1	15.00	(5.30+5.30)/2	0.10	7.95
	90-105		1	15.00	(5.30+5.30)/2	0.10	7.95
	105-120		1	15.00	(5.30+5.20)/2	0.10	7.88
	120-135		1	15.00	(5.20+5.20)/2	0.10	7.80
	135-150		1	15.00	(5.20+5.20)/2	0.10	7.80
	150-165		1	15.00	(5.20+5.20)/2	0.10	7.80
	165-180		1	15.00	(5.20+5.10)/2	0.10	7.73
	180-195		1	15.00	(5.10+5.50)/2	0.10	7.95
	195-204		1	9.00	(5.50+6.40)/2	0.10	5.36
					Total Qty		**328.50**

Assistant Engineer
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Asst Executive Engineer
T Dasarahalli sub division

Measurement recorded on : 23/02/22 to 25/03/22

12	**Cement Concrete Pavement. Construction of Un-Reinforced Plain Cement Concrete Pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other typa as per clause 1051.2.2 design mix, with 25 mm and down size graded granite metal coarse and fine aggregates, with superplastisiser @31. Its confirming to IS 9103 - 1999 Reaffirmed - 2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approval fixed side form work (Steel Channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including leveling the form work as per drawing. Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation, membrane, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. M30 (At 270 kg, per cum coarse aggregate @ 0.69 cum and fine aggregate @ 0.46 cum) replacing 25% (90 Kg) of cement content with Ground Granulated Blast Furnance Slag in mix design.**						
		Cum					
	1st Cross road from Royal Enclave main road to dead end						
	0-15		1	15.00	(4.10+4.10)/2	0.15	9.23
	15-30		1	15.00	(4.10+4.10)/2	0.15	9.23
	30-40.10		1	10.10	(4.10+4.10)/2	0.15	6.21
	0-15		1	15.00	(4.10+4.10)/2	0.15	9.23
	15-30		1	15.00	(4.10+4.10)/2	0.15	9.23
	30-40.30		1	10.30	(4.10+4.10)/2	0.15	6.33
	2nd Cross road						
	0-15		1	15.00	(3.80+3.80)/2	0.15	8.55
	15-30		1	15.00	(3.80+3.80)/2	0.15	8.55
	30-45		1	15.00	(3.80+3.70)/2	0.15	8.44
	45-48.20		1	3.20	(3.70+3.70)/2	0.15	1.78
	3rd Cross road						
	0-15		1	15.00	(5.00+5.50)/2	0.15	11.81
	15-30		1	15.00	(5.50+5.30)/2	0.15	12.15
	30-45		1	15.00	(5.30+5.20)/2	0.15	11.81
	45-60		1	15.00	(5.20+5.10)/2	0.15	11.59
	60-63.30		1	3.30	(5.10+5.10)/2	0.15	2.52
	0-15		1	15.00	(5.20+5.10)/2	0.15	11.59
	15-28.80		1	13.80	(5.10+5.50)/2	0.15	10.97
	4th cross road						
	0-15		1	15.00	(5.00+5.00)/2	0.15	11.25
	15-30		1	15.00	(5.00+5.00)/2	0.15	11.25
	30-45		1	15.00	(5.00+5.60)/2	0.15	11.93
	45-60		1	15.00	(5.60+5.70)/2	0.15	12.71
	60-69.60		1	9.60	(5.70+6.00)/2	0.15	8.42
	0-15		1	15.00	(6.00+6.00)/2	0.15	13.50
	15-28		1	13.00	(6.00+6.00)/2	0.15	11.70
	Parallel road For 4th & 3rd Cross						
	0-15		1	15.00	(4.90+4.80)/2	0.15	10.91
	15-30		1	15.00	(4.80+4.80)/2	0.15	10.80

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	30-45		1	15.00	(4.80+4.80)/2	0.15	10.80
	45-60		1	15.00	(4.80+5.00)/2	0.15	11.03
	60-65.50		1	5.50	(5.00+3.00)/2	0.15	3.30
	5th Cross road						
	0-15		1	15.00	(6.00+6.00)/2	0.15	13.50
	15-30		1	15.00	(6.00+5.00)/2	0.15	12.38
	0-15		1	15.00	(5.20+5.10)/2	0.15	11.59
	15-30		1	15.00	(5.10+4.90)/2	0.15	11.25
	30-34.10		1	4.10	(4.90+5.00)/2	0.15	3.04
	Royal Enclave Main road from Bhairaveswara circle Road to NMH kalyanamantapa						
	0-15		1	15.00	(5.50+5.60)/2	0.15	12.49
	15-30		1	15.00	(5.60+5.50)/2	0.15	12.49
	30-45		1	15.00	(5.50+5.50)/2	0.15	12.38
	45-60		1	15.00	(5.50+5.50)/2	0.15	12.38
	60-75		1	15.00	(5.50+5.30)/2	0.15	12.15
	75-90		1	15.00	(5.30+5.30)/2	0.15	11.93
	90-105		1	15.00	(5.30+5.30)/2	0.15	11.93
	105-120		1	15.00	(5.30+5.20)/2	0.15	11.81
	120-135		1	15.00	(5.20+5.20)/2	0.15	11.70
	135-150		1	15.00	(5.20+5.20)/2	0.15	11.70
	150-165		1	15.00	(5.20+5.20)/2	0.15	11.70
	165-180		1	15.00	(5.20+5.10)/2	0.15	11.59
	180-195		1	15.00	(5.10+5.50)/2	0.15	11.93
	195-204		1	9.00	(5.50+6.40)/2	0.15	8.03
					Total		**492.74**
					BOQ Qty		**627.64**
					Upto 125% of BOQ Qty		**492.74**
					Above 125% of BOQ Qty		**Nill**

Assistant Engineer
Ward-14

Asst Executive Engineer
T Dasarahalli sub division